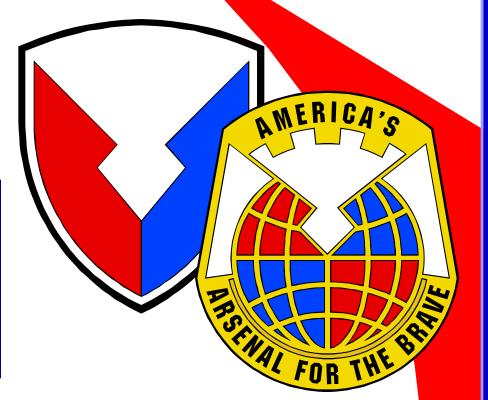
Presented by:

DCS Ammunition

Army Materiel Command

Ammunition Overview to New Commanders

June 1999

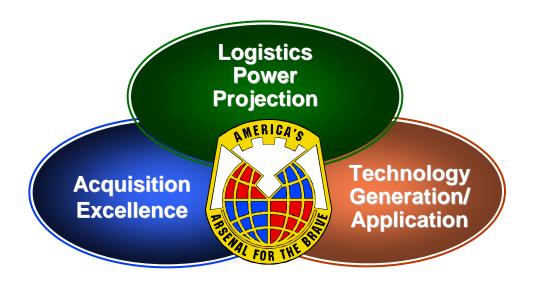


AMC

Your READINESS Command. . . Serving Soldiers PROUDLY!



DCS Ammo CORE Competencies



DCS Ammo Mission Encompasses all 3 CORE Competencies

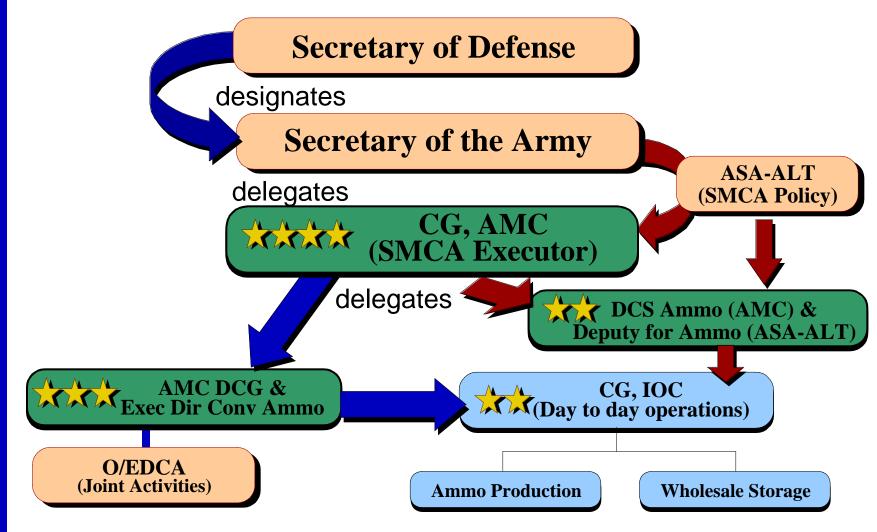
Represents an Integration of ASA-ALT and AMC Responsibilities

DCS Ammo Organized for Total Life Cycle Management of Ammunition

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Who is the Single Manager for Conventional Ammunition (SMCA)?



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Under Secretary of the Army

23 Aug 1988

- * The DCS Will Have All AMC HQ and Former DCSRDA Staff Responsibilities for Ammunition.
 - This Includes AMMO R&D, Procurement, and Production Staff Management, Single Manager for Conventional Ammunition (SMCA) Oversight, Planning, Programming, and Budgeting, Ammo Management Information Systems and Integration of Ammunition Logistics.
- * The DCSA Will Essentially Be Dual-hatted as DA-SARDA's Executive Agent for Ammunition and He and His Staff Will Provide the DA Level Ammo Program and Budget Review Capability.

Michael P. W. Stone Under Secretary of the Army

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Major Responsibilities



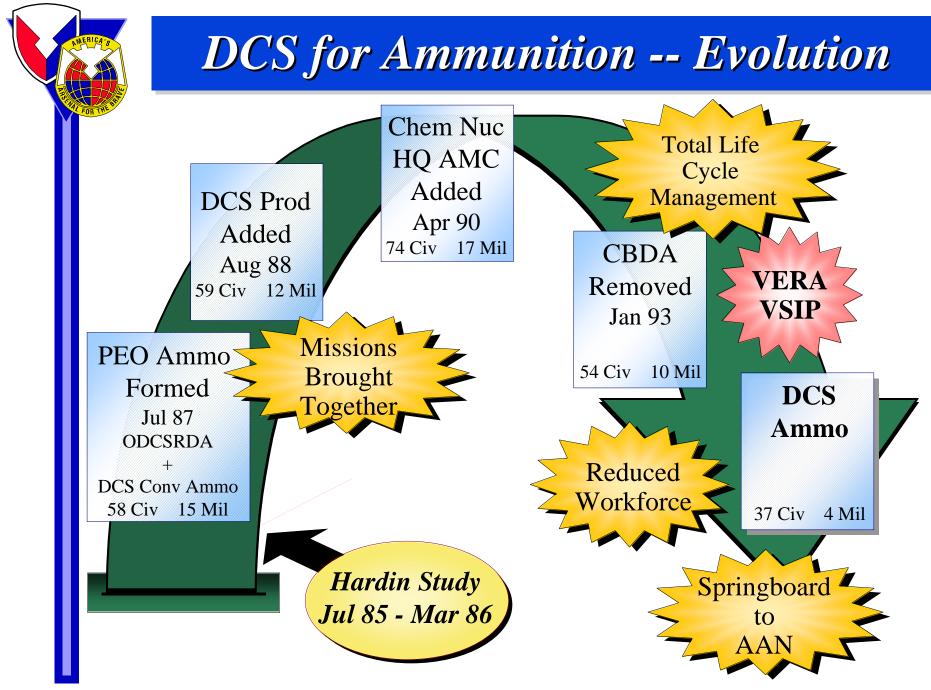
- * Ammo RDTE Oversight
- * Manage Ammunition Appropriation (PAA)
- * PPBES
- Ammunition Hardware Integration
- * Ammunition Industrial Base Planning
- * Congressional/OSD Interaction

AMC-AM

- * Ammunition Production Base Management
- * Distribution
- Storage, Receipt and Issue
- * Demil
- Supply Depot Operations (O&MA)
- * Functional Proponent

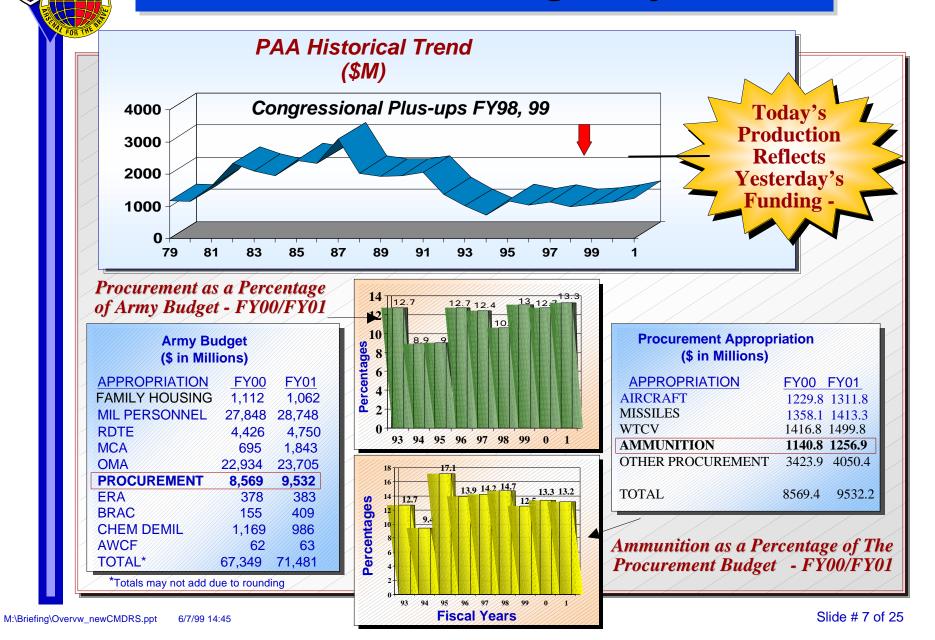
ASA-ALT & AMC - An Integration Success Story

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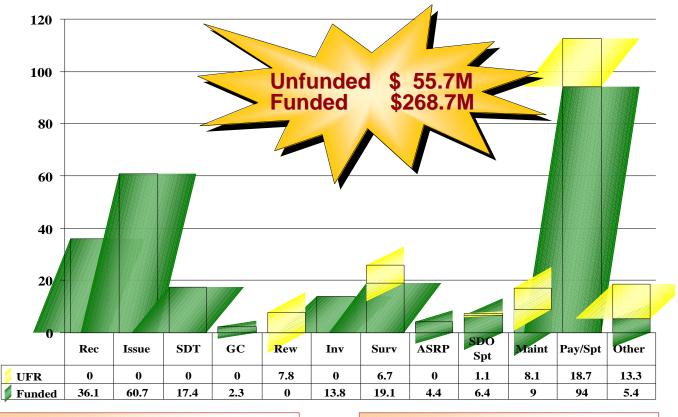
PAA - Funding Profile





Conventional Ammo Stockpile Mgmt

Functions performed by AMC to manage all Services wholesale Conventional Ammunition Stockpile. Includes storage, distribution, inventory, surveillance, maintenance (Army only), inventory of stock and all administrative processes associated with the SMCA mission.



Source: 1st Qtr IOC Report

No Funding for Re-warehouse

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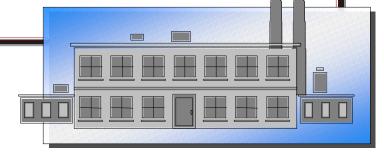
Receipt, Issue, SDT Fully Funded



Goal

Provide a Defense Industrial Base That:

- * Procures Ammunition for Training During Peacetime
- * Procures War Reserve Readiness Stocks
- * Supports Contingency Requirements
- * Replenishes Training/War Reserve Stocks after Conflict
- * Maintains Technological Skill Base
- * Serves as Insurance Against Strategic Uncertainty
- * Incorporates **Efficiencies/Cost Reductions**



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Industrial Base Policy 98-1

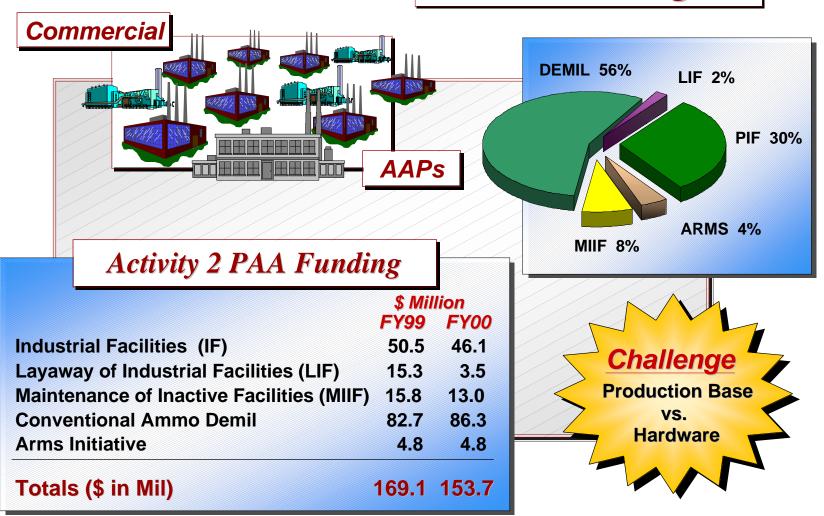
A Strategy . . .

- * Manage ammunition using DOD's lifecycle acquisition process.
- * Use acquisition reform initiatives to stabilize the business environment and provide incentives for private investment in the production base.
- * Rely on the private sector to create and sustain ammunition production assets in response to production and replenishment contracts.
- * To the maximum extent feasible, transition government owned ammunition production assets to the private sector while preserving the ability to conduct explosives handling Operations safely.

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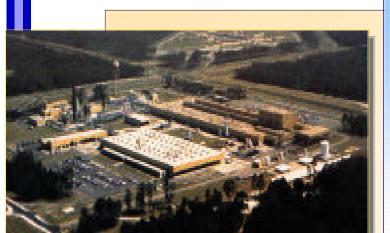
Ammunition Production Base FY00-01 Budget



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Ammunition Production Base Support



Active Facilities

- * Government-Owned, Government-Operated (GOGO)
 - Crane Army Ammunition Activity
 - McAlester Army Ammunition Plant
 - Pine Bluff Arsenal
- * Government-Owned, Contractor-Operated (GOCO)
 - ✓ Holston Army Ammunition Plant
 - √ lowa Army Ammunition Plant
 - √ Lake City Army Ammunition Plant
 - √ Lone Star Army Ammunition Plant
 - ✓ Milan Army Ammunition Plant
 - √ Radford Army Ammunition Plant
 - Hawthorne (Depot) Army Ammunition Activity

Reserve Facilities

- * GOCO
 - √ Kansas (Partial) Army Ammunition Plant
 - **✓ Louisiana Army Ammunition Plant**
 - √ Mississippi Army Ammunition Plant
 - √ Riverbank Army Ammunition Plant
 - √ Scranton Army Ammunition Plant

Excess Facilities

- * GOCO
 - Badger AAP
 - Indiana AAP
 - Kansas (partial) AAP
 - Longhorn AAP
 - Sunflower AAP
 - Volunteer AAP

- Alabama AAP
- Cornhusker AAP
- Joilet AAP
- PDW AAP
- Ravenna AAP
- ► Twin Cities AAP
- ◆ Special Legislation Land Transfer

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Ammunition Production Base Support

Active GOCO Facilities

<u>Facility</u>	<u>Contractor</u>	Core Processes	<u>Personnel</u>
Holston	Royal Ordnance of North America	Energetics – HMX.RDX, R&D	TBD
lowa	American Ordnance	Load, Assemble, & Pack – Tank/Artillery	929
Lake City	Olin Winchester	Small Arms Manufacturing	1002
Lone Star	Day & Zimmermann	Load, Assemble, & Pack – Grenades, Initiators/Detonator, Mines, Cargo Carry Munitions	434
Milan	American Ordnance	Load, Assemble, & Pack – Mortars, 40mm Cartridges, C-4	970

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Alliant Techsystems

Propellant Manufacturing

1200

Radford



Ammunition Production Base Support

Active GOGO Facilities



Crane Army

Facility	Core Processes	Personnel
Pine Bluff Arsenal	Chemical, Smoke, Incendiary, Illumination and Other Pyrotechnic Munitions, Agents and Mixes, Chemical Defensive/Protective Items and Test Equipment and Maintenance Certification/Rebuild	830



Ammunition Activity	Demilitarize and Produce Conventional Ammunition	
McAlester Army Ammunition Plant	Load and Pack of Conventional Ammunition, Bombs, Warheads and Rockets. Produce, Renovate, Demilitarize and Store Ammunition and Related Components	760

Receive, Issue, Store, Renovate,

602

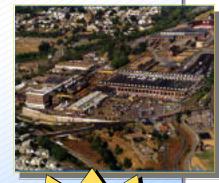
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Armament Retooling and Manufacturing Support (ARMS)

* Initiative Legislated in FY93 with Goals:

- Reuse Idle Ammo Industrial Capacity
 Through Commercialization
- Seek Cost Avoidance
- Improve Readiness Through Production Efficiencies
- Sustain Economic Development
- Retain Skill Base
- Model for Defense Conversion



ARMS - X 1997 Effort to Extend ARMS to Depots

Facilities as Assets



Armament Retooling and Manufacturing Support (ARMS)

Cost Avoidance

- **★ Overhead Operating Cost ★ Zero Maintenance Cost**
 - → Iowa AAP 18%
 - → Radford AAP 28%
- - → Achieved at 3 Facilities
 - → Projected at 3 Facilities





- * Army/Appropriated
 - → FY93-99: \$204M*
- * Obligated/Awarded: \$186M

* Contractor/Tenants

→ FY93-99: \$117M

ROI = 5 Years

Commercialization



Skills Retained

- * 32 of 33 at Indiana
- * 13 of 15 at Mississippi

Economic Benefits

- * 181 Commercial Tenants
- * 2,621 Jobs
- Wages \$74M
- Community Return \$442M

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FY99 Def Authorization Act Change As SMCA

Section 806: The LAW

* Authority

- ➤ To Restrict Conventional Ammo Procurement ICW Section 2304c, Title 10 US Code.
 - Sources with national technology
 - Industrial Base

* Requirement

- "Shall Limit" Procurement w/in National Technology & Industrial Base
- ➤ SMCA Determines Limitations
 - Maintain facility, producer, manufacturer, or other supplier

* Conventional Ammo Definition

➤ Found in DoD Dir 5160.65, Mar 95

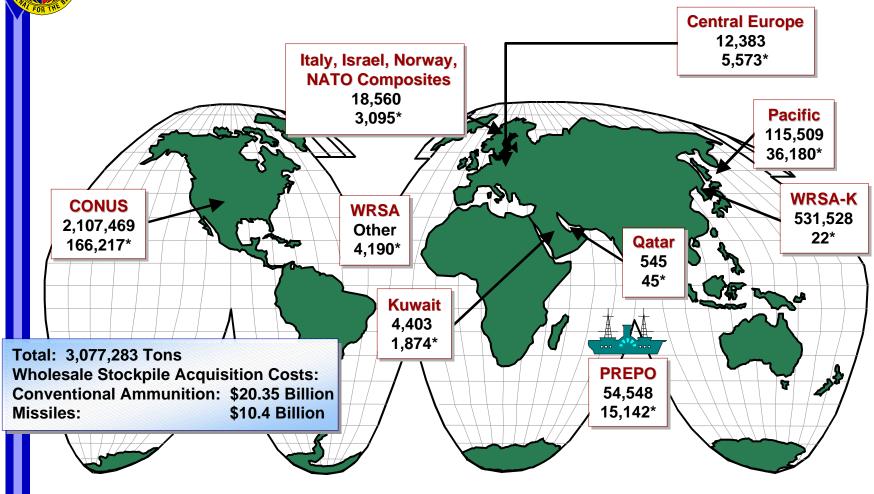
Implications

- Legal Counsel Review supports need for change May affect FAR, MDA
- * SMCA (presumptively through CG AMC) is responsible for determining if industrial base preservation is required
- * SMCA is responsible for directing said preservation
 - SMCA may determine a preservation action is required but that action requires direction be given on PEO or other Service non-SMCA conventional ammo procurements
- * How does Army implement?

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Stockpile Management



Notes:

OCONUS = AMC Accountable (Army Only)
CONUS = AMC Accountable (All Services)

*Missiles

Sources: Conventional Ammunition: CCSS/SAAS/AMCOM Mar 99

Missiles: SDS 1 Mar 99

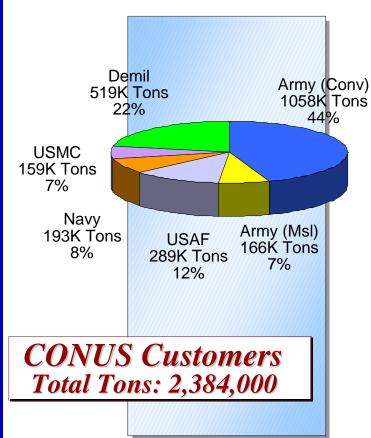
POC: Deb Watson, AMSIO-SMA-I, DSN 793-3645

Bob Sharp, AMSAM-IMMC, DSN 746-1237



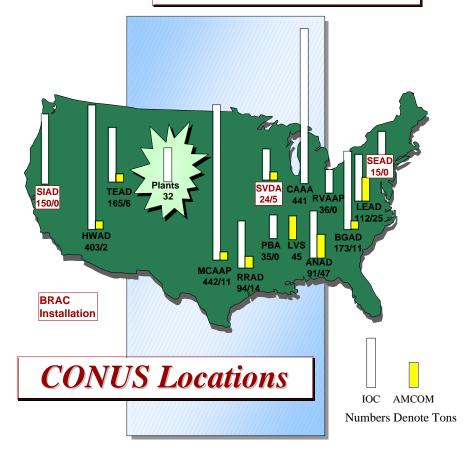
CONUS Wholesale Stockpile

All Services



Source: Feeder Data 30 Sep 98, CCSS MASSET 1 Oct 98

Missiles: SDS and CCSS, Sep 98



POC: Deb Watson, AMSIO-SMA-I, DSN 793-3645 Bob Sharp, AMSAM-IMMC, DSN 476-1237

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SMCA Demilitarization Campaign Plan

- * Use Older Munitions for Training
- * First-In, First-Out
- * CC-E Munitions for Training

Salvage

- Sell Inert Items when possible
- Reclaim/Remanufacture Explosives
- * Maximize recycling
- Leverage with OSD R&D funding
- Develop environmentally friendly demilitarization procedures
- * Determine Size of Problem
- Leverage with Conventional Ammunition Demilitarization Program
- * Use Private Industry
- * Extend Shelf-life (ASRP)
- Increase Demilitarization R&D efforts

- * Legislation Implemented
- Allow Greater Sales to Private Industry
- Barter for Additional Demilitarization

- * Allow Partnering
- * Allow Private Industry to Use Excess Government Capacity
- * Maximize Government Operations
- Reduce Costs
- * Maximize OB/OD While Still Available
- * Concurrently and Further Develop R3
- * Encourage More Participation by Private Industry
- * Allow Partnering On a Government Facility
- * Seek Alternate Uses Prior to Demilitarization
- * Training
- * Other Services
- * FMS
- * Legislation
 - * Increase Capability/Capacity
 - * Get Rid of Small, Difficult Items
 - * Free Up Additional Storage Space
 - Keep Ahead of Stricter Environmental Rules
 - * Use R3

Goal--

Demil backlog at a manageable level

by 30 Sep 2010

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Demilitarization by the Numbers

FY1985 through FY1993--

*Tons demilitarized: 265,607 tons

*Tons generated: 368,200 tons

*Funding: \$216.24M FY1994 through FY1998

*Tons demilitarized: 556,580 tons

*Tons generated: 1,082,168 tons

*Funding: \$590.11M

Current Stockpile status:

*Tons backlogged: 518,642

*POM generations: +500,000 tons



*Army is demilitarizing on its timetable

*Need to stay in front of future environmental issues

*Must demilitarize before someone designates this stockpile a hazardous waste

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Conventional Ammunition Demilitarization

Indefinite Delivery/Indefinite Quantity Contract:

- * Two five year ID/IQ contracts
- * General Dynamics Ordnance:
 - EBV (Germany) Primex
 - HiTech Alliant TPL
 - Ease Aerotech General Atomics
- * PB/NAMMO Demil LLC (Parsons Brinckerhoff/Bofors)
 - NAMMO (Sweden)
- McAlester AD
- Crane AA

- ICI

- Tooele AD

- El Dorado Eng Quantitech
- ICI (limited scope)
- * FY1999 value--\$60.7M (total value could approach \$300M)
- * Nine families (58% of the assets in the demilitarization stockpile:
 - Pyrotechnics

- Bombs

- HE Ctgs

Explosive D

- ICMs
- Bulk Propellant

- Propellant Chgs
- Fuzes
- Small Caliber Ammunition
- * After first year, each order will be competed between two primes
- * Expect between 30% to 70% split between the two primes

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Conventional Ammunition Demilitarization

OCONUS Demilitarization Program:

* USAREUR--

- Started in FY1992
- 35,032 tons demilitarized
- 6,419 tons currently on contract
- Total funding--\$35M
- 95% of effort performed by private industry
- USAREUR effort winding down to a steady state

* USARPAC--

- Started in FY1993
- 12,336 tons demilitarized at a cost of \$14.5M
- Major efforts--
 - Demilitarization of 21K Air Force 750-lb bombs on Guam
 - -Installation of small arms/components furnace in Japan (FY2000)
 - -Recycling center in Korea (FY2001)
- Estimated retrograde cost avoidance--\$63.3M

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Ammunition Management Career Program CP-33

Functional Chief / Functional Chief Representative Manage Program

Functional Chief (FC)
Commanding General AMC

GENERAL COBURN

Functional Chief Representative (FCR)
Assistant Deputy Chief of Staff
for Ammunition, AMC

MR. JAMES C. HILL

Functional Chief/Functional Chief Representative Responsibilities

- Manage Career Program Objectives
- Monitor Affirmative Action Goals
- * Assist DCSPER with CP Regulations
- ★ Member of DA CP Policy Committee

CP Planning Boards: FCR Chair & Senior Careerists Determine CP Direction & Vision

Screening Panel: Senior Careerists Evaluate & Rate Careerist's Referral Packages

Daily Activities: Provided by CP Manager at U.S. Army Defense Ammunition Center

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